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HARNESS, DICKEY & PIERCE, P.L.C. P.O. BOX 8910 RESTON, VA 20195			MANNING, JOHN	
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			2614	

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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/751,159

Applicant(s)

KAPLAN ET AL.

Examiner

John Manning

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on 10/07/04
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-22 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☐ Claim(s) _____ is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Response to Arguments

1. Applicant's arguments, see page 9, filed 10/07/2004, with respect to the objection to claim 6 have been fully considered and are persuasive. The objection of claim for having insufficient antecedent basis has been withdrawn.
2. Applicant's arguments filed 10/07/2004 have been fully considered but they are not persuasive. The applicant argues "that Simonin does not disclose or suggest the deliverance of a video signal via a "switched communication network," as is required by claims 1-5, 10- 15 and 19-22 of the present invention. Instead, Simonin discloses the transmission of signals over a cable television system which is not a switched communication network." Simonin is directed toward a telecommunication system, which clearly utilizes ring switches for providing a packetized Ethernet network with TCP/IP error correction. Ethernet networks are switched communication networks. The applicant's specification on page 3 refers to Ethernet while discussing a switched network.

The applicant argues, "that neither Simonin nor Wilkins, taken separately or in combination, discloses or suggests the insertion of "N x M ad-inserted streams" for delivery to individual subscribers as is required by claims 5 and 15 of the present invention." Wilkins discloses creating psychographic and demographic audience groups. The number of modified steams would be equal to the number of channels multiplied by the number of audience groups.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-5, 10-15 and 19-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Simonin (US Pat 6,049,824) in view of Wilkins (US Pat No 5,446,919).

In regard to claim 1, the Simonin reference discloses a system and method modifying an information signal in a telecommunications system. The claimed method is met by Figure 1. The claimed step of "transmitting one or more program streams from a head end node to one or more egress nodes via the switched network" is met by Items 102, 108-1, and 104-1 of Figure 1. "Head end 102 includes a number of transceivers 110 that receive information signals from content providers via, e.g., wired, satellite or other wireless feeds at antenna 112. Transceivers 110 transmit the information signals in a number of channels over the transport system to remote head ends 104-1 through 104-N" (Col 4, Lines 13-18). The claimed step of "inserting one or more advertisements into the one or more program streams at the one or more egress nodes for delivery to individual subscribers such that a particular subscriber receives a program stream with an advertisement that corresponds to demographic characteristics of that particular subscriber" is met in part by the remote head end 104-1 of Figure 1. The disclosed system "allows an information signal provided from head end 102 to be

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selectively modified at one or more of remote head ends 104-1 through 104-N" (Col 3, Lines 48-50). It is noted that the examiner interprets the disclosed "main head end" to be the "head end" and the "remote head end" to be the "egress node". The reference fails to explicitly disclose that the advertisement corresponds to demographic characteristics of that particular subscriber. The Wilkins teaches the analysis of demographic information so as to guarantee a well-defined audience to the advertisers. Consequently, it would have been obvious to one of ordinary skill in the art to modify Simonin with the analysis of demographic information so as to guarantee a well-defined audience to the advertisers.

In regard to claim 2, the claimed step of "inserting splice points in the one or more program streams at the head end node" is met by the main head end 102 of the Simonin reference. "Head end 102 is programmable to indicate the time that a particular information signal is to be modified with a particular modification signal. The transmission of a selected modification signal is based on a pulse signal from, for example, a satellite feed" (Col 4, Lines 21-23).

In regard to claim 3, the claimed step of "inserting one or more advertisements comprises splicing an advertising stream with a program stream, wherein the advertising stream includes the one or more advertisements" is met by the "node" or remote head end 104-1. The disclosed system "allows an information signal provided from head end 102 to be selectively modified at one or more of remote head ends 104-1 through 104-N" (Col 3, Lines 48-50). Further, "Upon detecting a base band output from decoder card 120-1, switch 122-1 switches to output the base band signal from decoder

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card 120-1 in place of the information signal or in conjunction with the information signal when a blanking pulse is detected in the information signal" (Col 5, Lines 41-45).

In regard to claim 4, the claimed step the system "responsive to a command to begin splicing, identifying a splice point in the advertising stream" is met by Figure 1. "Head end 102 is programmable to indicate the time that a particular information signal is to be modified with a particular modification signal. The transmission of a selected modification signal is based on a pulse signal from, for example, a satellite feed" (Col 4, Lines 21-25). The claimed step of "buffering frames after the splice point in the advertising stream" is met by decoder card 120-1. The "decoder cards 120-1 through 120-M include a buffer circuit that is adjustable from, for example, 0 to at least 2 seconds to allow for real time error correction of the modification signal transmitted over the transport system to the remote head end" (Col 5, Lines 11-15). The claimed step of "identifying a splice point in the program stream" is met by decoder card 120-1 and switch 122-1. "The pulse causes server 114 to transmit the selected modification signal through ring switches 116 and 118 to decoder card 120-1. The modification signal is transmitted in packets with an address that indicates the packets are destined for decoder card 120-1." (Col 5, Lines 41-45). The claimed step of "switching to the advertising stream" is met by decoder card 120-1 and switch 122-1. "Remote head end 104-1 also includes switches 122-1 through 122-M. Switches 122-1 through 122-M each receive information signals from head end 102 over the transport system. Further, each switch 122-1 through 122-M has a second input that is coupled to an output of a corresponding decoder card 120-1 through 120-M." The claimed step of "outputting an

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ad-inserted stream that includes frames from the program stream and advertising stream, whereby the program stream and advertising stream are adaptively synchronized by aligning the splice points to enhance the quality of video transmission" is met by decoder card 120-1 and switch 122-1. "Decoder card 120-1 decodes the modification signal down to a base band signal. Upon detecting a base band output from decoder card 120-1, switch 122-1 switches to output the base band signal from decoder card 120-1 in place of the information signal or in conjunction with the information signal when a blanking pulse is detected in the information signal. Switch 122-1 switches back to the information signal when the absence of a base band signal is detected at the output of decoder card 120-1" (Col 5, Lines 40-48).

In regard to claim 5, it is implied that $N \times M$ ad inserted streams are created, where M represents the number of demographic groupings and N represents the unmodified streams.

In regard to claim 10, the claimed step of "the program streams supplied by the head end node include program streams provided to the head end node from a remote source" is met by Figure 1, Items 102 and 112. "Head end 102 includes a number of transceivers 110 that receive information signals from content providers via, e.g., wired, satellite or other wireless feeds at antenna 112" (Col 4, Lines 13-15).

In regard to claim 11, Wilkins discloses the step of "receiving subscriber management information". "The cable television head-end receives the demographic/psychographic information, and identifies data pertaining to subscribers of that particular cable system" (Col 9, Lines 31-34). Wilkins discloses the step of

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"selecting a particular advertisement based on the subscriber management information".

The system compares "the household's demographic/psychographic information to the selection profile and switch to the appropriate viewing channel" (Col 10, Lines 8-10).

Simonin discloses the step of "retrieving the particular advertisement at the one or more egress nodes". "System 100 can be used to allow the operator of a local cable television system selectively to insert local advertisements into the feed from a nationally broadcast channel. This is accomplished by selectively providing modification signals over one of the channels of the transport system in packets that are switched to a selected remote head end using ring switches which learn the location of network devices" (Col 3, Lines 58-64).

In regard to claim 12, the Simonin reference discloses a system and method modifying an information signal in a telecommunications system where the information signals are supplied to a "node" or remote head end from a main head end. The claimed limitation of an "egress node" is met by the remote head end 104-1. The claimed limitation of "a router for receiving the one or more program streams" is met by the ring switch 118. "This is accomplished by selectively providing modification signals over one of the channels of the transport system in packets that are switched to a selected remote head end using ring switches which learn the location of network devices, e.g., addressable components of a remote head end, based on addresses in packets processed by the switches and which learn that addresses of network devices associated with other ring switches are reachable out of at least one ring port of the ring switch" (Col 3, Lines 61-67; Col 4, Lines 1-2). The claimed limitation of "a storage

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element for storing advertisements” is met by the decoder card 120. “In one embodiment decoder cards 120-1 through 120-M include a buffer circuit that is adjustable from, for example, 0 to at least 2 seconds to allow for real time error correction of the modification signal transmitted over the transport system to the remote head end” (Col 5, Lines 9-15). The claimed limitation of “a splicer element for inserting one or more of the stored advertisements into the one or more program streams for delivery to individual subscribers” is met by the decoder card 120. “Decoder card 120-1 decodes the modification signal down to a base band signal. Upon detecting a base band output from decoder card 120-1, switch 122-1 switches to output the base band signal from decoder card 120-1 in place of the information signal or in conjunction with the information signal when a blanking pulse is detected in the information signal” (Col 5, Lines 40-45). The reference fails to explicitly disclose that the advertisement corresponds to demographic characteristics of that particular subscriber. The Wilkins teaches the analysis of demographic information so as to guarantee a well-defined audience to the advertisers. Consequently, it would have been obvious to one of ordinary skill in the art to modify Simonin with the analysis of demographic information so as to guarantee a well-defined audience to the advertisers.

In regard to claim 13, the claimed limitation of “one or more program streams include splice points and wherein the splicer element splices an advertising stream with a program stream, wherein the advertising stream includes one or more stored advertisements” is met by the main head end 102 and the remote head end 104 of the Simonin reference. “Head end 102 is programmable to indicate the time that a

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particular information signal is to be modified with a particular modification signal. The transmission of a selected modification signal is based on a pulse signal from, for example, a satellite feed" (Col 4, Lines 21-23). The disclosed system "allows an information signal provided from head end 102 to be selectively modified at one or more of remote head ends 104-1 through 104-N" (Col 3, Lines 48-50). Further, "Upon detecting a base band output from decoder card 120-1, switch 122-1 switches to output the base band signal from decoder card 120-1 in place of the information signal or in conjunction with the information signal when a blanking pulse is detected in the information signal" (Col 5, Lines 41-45). The limitation "stored advertisements" is met by the decoder card 120. In one embodiment decoder cards 120-1 through 120-M include a buffer circuit that is adjustable from, for example, 0 to at least 2 seconds to allow for real time error correction of the modification signal transmitted over the transport system to the remote head end.

In regard to claim 14, the claimed limitation of "a plurality of input processors" is met by the decoder cards 122-1-122-M. The claimed limitation of "a plurality of data buffers, each of the plurality of data buffers coupled to a corresponding one of the plurality of input processors" is also met by the decoder cards 122-1-122-M. "In one embodiment decoder cards 120-1 through 120-M include a buffer circuit that is adjustable from, for example, 0 to at least 2 seconds to allow for real time error correction of the modification signal transmitted over the transport system to the remote head end" (Col 5, Lines 9-15). The claimed limitation of "responsive to a splice point being identified in the advertising stream, one of the plurality of data buffers stores

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frames after the splice point in the advertising stream, and wherein, responsive to a splice point being identified in the program stream, the at least one output processor switches to the advertising stream so that a single bitstream is provided as output that includes frames from the program stream and advertising stream" is met by the decoder card 120. "Upon detecting a base band output from decoder card 120-1, switch 122-1 switches to output the base band signal from decoder card 120-1 in place of the information signal or in conjunction with the information signal when a blanking pulse is detected in the information signal" (Col 5, Lines 41-45).

In regard to claim 15, it is implied that $N \times M$ ad inserted streams are created, where M represents the number of demographic groupings and N represents the unmodified streams.

In regard to claim 19, Wilkins discloses the step of "receiving subscriber management information". "The cable television head-end receives the demographic/psychographic information, and identifies data pertaining to subscribers of that particular cable system" (Col 9, Lines 31-34). Wilkins discloses the step of "selecting a particular advertisement based on the subscriber management information". The system compares "the household's demographic/psychographic information to the selection profile and switch to the appropriate viewing channel" (Col 10, Lines 8-10). Simonin discloses the step of "retrieving the particular advertisement at the one or more egress nodes". "System 100 can be used to allow the operator of a local cable television system selectively to insert local advertisements into the feed from a nationally broadcast channel. This is accomplished by selectively providing modification

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signals over one of the channels of the transport system in packets that are switched to a selected remote head end using ring switches which learn the location of network devices" (Col 3, Lines 58-64).

In regard to claim 20, the claimed limitation of "a head end node for transmitting one or more program streams via the switched network" is met by the main head end 102. The claimed limitation of "at least one egress node for receiving the one or more program streams" is met by remote head ends 104-1-104-N. The claimed limitation of "the egress node including a splicer element for inserting one or more advertisements into the one or more program streams at the egress node for delivery to individual subscribers" is met by the main head end 102 and the remote head end 104 of the Simonin reference. "Head end 102 is programmable to indicate the time that a particular information signal is to be modified with a particular modification signal. The transmission of a selected modification signal is based on a pulse signal from, for example, a satellite feed" (Col 4, Lines 21-23). The disclosed system "allows an information signal provided from head end 102 to be selectively modified at one or more of remote head ends 104-1 through 104-N" (Col 3, Lines 48-50). Further, "Upon detecting a base band output from decoder card 120-1, switch 122-1 switches to output the base band signal from decoder card 120-1 in place of the information signal or in conjunction with the information signal when a blanking pulse is detected in the information signal" (Col 5, Lines 41-45). The limitation "stored advertisements" is met by the decoder card 120. In one embodiment decoder cards 120-1 through 120-M include a buffer circuit that is adjustable from, for example, 0 to at least 2 seconds to

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allow for real time error correction of the modification signal transmitted over the transport system to the remote head end. The Simonin reference fails to explicitly disclose the claimed limitation "that a particular subscriber receives a program stream with an advertisement that corresponds to demographic characteristics of that particular subscriber". The Wilkins teaches the analysis of demographic information so as to guarantee a well-defined audience to the advertisers. Consequently, it would have been obvious to one of ordinary skill in the art to modify Simonin with the analysis of demographic information so as to guarantee a well-defined audience to the advertisers.

In regard to claim 21, "an encoder for receiving and encoding the program streams" is met by transceiver 110. "Transceivers 110 transmit the information signals in a number of channels over the transport system to remote head ends 104-1 through 104-N" (Col 4, Lines 16-18). Encapsulation of the received program stream is implied. The Simonin reference discloses a service management system for provisioning and managing distribution of the program streams; and, Wilkins discloses analysis of demographic information so as to guarantee a well-defined audience to the advertisers.

In regard to claim 22, the combination of Simonin and Wilkins disclose a system and method modifying an information signal in a telecommunications system. The combination of Simonin and Wilkins fail to explicitly disclose that the head end node comprises a storage element for encoded program streams for time-delay delivery. However, the examiner takes OFFICIAL NOTICE that it is notoriously well known in the art to have a storage element at the head end for encoded program streams for time-delay delivery as for the case of video-on-demand for increased functionality.

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Consequently, it would have been obvious to one of ordinary skill in the art to modify the combination of Simonin and Wilkins with streams that are transmitted to the subscriber via a DSL interface so that the subscriber may connect to the network using existing telephonic infrastructure.

5. Claims 6-9 and 16-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Simonin in view of Wilkins and further in view of Bigham et al. (US Pat No 5,544,161).

In regard to claim 6, the combination of Simonin and Wilkins disclose a system and method modifying an information signal in a telecommunications system. The combination of Simonin and Wilkins fail to explicitly disclose that the distributed packets are over an ATM-based network. Bigham teaches the use of an ATM-based network so as to provide a network with "broad-bandwidth, low delay, packet-like switching and multiplexing". Consequently, it would have been obvious to one of ordinary skill in the art to modify the combination of Simonin and Wilkins with an ATM-based network so as to provide a network with "broad-bandwidth, low delay, packet-like switching and multiplexing".

In regard to claim 7, Simonin discloses multicasting the program streams via the switched communications network. "The modification signal is transmitted in packets with an address that indicates the packets are destined for decoder card 120-1. It is noted that the address used could correspond to a group of decoder cards located at a number of remote head ends" (Col 5, Lines 35-39).

In regard to claim 8, the combination of Simonin and Wilkins disclose a system and method modifying an information signal in a telecommunications system. The combination of Simonin and Wilkins fail to explicitly disclose that the streams are transmitted to the subscriber via a DSL interface. However, the examiner takes OFFICIAL NOTICE that it is notoriously well known in the art to use a DSL interface so as to connect to a network using existing telephonic infrastructure. Consequently, it would have been obvious to one of ordinary skill in the art to modify the combination of Simonin and Wilkins with streams that are transmitted to the subscriber via a DSL interface so that the subscriber may connect to the network using existing telephonic infrastructure.

In regard to claim 9, the combination of Simonin and Wilkins disclose a system and method modifying an information signal in a telecommunications system. The combination of Simonin and Wilkins fail to explicitly disclose that the streams are transmitted to the subscriber via an Ethernet interface. However, the examiner takes OFFICIAL NOTICE that it is notoriously well known in the art to use an Ethernet interface so as to connect to an Ethernet network. Consequently, it would have been obvious to one of ordinary skill in the art to modify the combination of Simonin and Wilkins with streams that are transmitted to the subscriber via an Ethernet interface so as to connect to an Ethernet network.

In regard to claim 16, the combination of Simonin and Wilkins disclose a system and method modifying an information signal in a telecommunications system. The combination of Simonin and Wilkins fail to explicitly disclose that the distributed packets

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are over an ATM-based network. Bigham teaches the use of an ATM-based network so as to provide a network with "broad-bandwidth, low delay, packet-like switching and multiplexing". Consequently, it would have been obvious to one of ordinary skill in the art to modify the combination of Simonin and Wilkins with an ATM-based network so as to provide a network with "broad-bandwidth, low delay, packet-like switching and multiplexing".

In regard to claim 17, Simonin discloses multicasting the program streams via the switched communications network. "The modification signal is transmitted in packets with an address that indicates the packets are destined for decoder card 120-1. It is noted that the address used could correspond to a group of decoder cards located at a number of remote head ends" (Col 5, Lines 35-39).

In regard to claim 18, the combination of Simonin and Wilkins disclose a system and method modifying an information signal in a telecommunications system. The combination of Simonin and Wilkins fail to explicitly disclose that the streams are transmitted to the subscriber via a DSL interface or Ethernet interface. However, the examiner takes OFFICIAL NOTICE that it is notoriously well known in the art to use a DSL interface so as to connect to a network using existing telephonic infrastructure or an Ethernet interface so as to connect to an Ethernet network. Consequently, it would have been obvious to one of ordinary skill in the art to modify the combination of Simonin and Wilkins with streams that are transmitted to the subscriber via either a DSL interface so that the subscriber may connect to the network using existing telephonic infrastructure or an Ethernet interface so as to connect to an Ethernet network.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure as follows:

- The Coden reference (US Pat No 6,154,462) discloses circuits and methods for a ring network.
- The Eldering et al. reference (US Pat No 6,820,277) discloses an advertisement system for digital video streams.

7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John Manning whose telephone number is 571-272-7352. The examiner can normally be reached on M-F: 9:00 - 5:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John W. Miller can be reached on 571-272-7353. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JM
April 23, 2005


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